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DATE: Saturday, March 23, 2002 [Printable Copy](#) [Create Case](#)

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<u>L10</u>	19 and (nucleic adj acid\$)	2	<u>L10</u>
<u>L9</u>	16 same express\$	41	<u>L9</u>
<u>L8</u>	16 same recombinant\$	0	<u>L8</u>
<u>L7</u>	16 same polynucleotide\$	0	<u>L7</u>
<u>L6</u>	sin1 or (sin adj 1)	579	<u>L6</u>
<u>L5</u>	short with integument\$ with polypeptide\$	0	<u>L5</u>
<u>L4</u>	short with integument\$ with protein\$	1	<u>L4</u>
<u>L3</u>	short adj integument\$ adj protein\$	1	<u>L3</u>
<u>L2</u>	short adj integument\$ adj protein\$	1	<u>L2</u>
<u>L1</u>	short adj integument\$ adj protein\$	1	<u>L1</u>

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***File 76: UDs have been manually adjusted to reflect the current months data. There is no data missing.**

File 94:JICST-EPlus 1985-2002/Feb W1
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***File 94: There is no data missing. UDs have been adjusted to reflect the current months data. See Help News94 for details.**

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RANK charge added; see HELP RATES 399.

File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
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File 156:ToxFile 1966-2002/Feb W4
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File 305:Analytical Abstracts 1980-2002/Mar W2
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See HELP NEWS 305.

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File 149:TGG Health&Wellness DB(SM) 1976-2002/Mar W2
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*File 159: File temporarily is not updating. Updating expected to
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*File 442: PY,PD sort temporarily do not work.

File 444:New England Journal of Med. 1985-2002/Mar W4
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File 457:The Lancet 1986-2000/Oct W1
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*File 457: Due to production changes at The Lancet, the updating of
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Set	Items	Description
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?s short (w) integument? (w) protein?

Processing

Processed 10 of 43 files ...

Processing

Processed 20 of 43 files ...

Processing

Completed processing all files

2447428 SHORT

139116 INTEGUMENT?

9967927 PROTEIN?

S1 1 SHORT (W) INTEGUMENT? (W) PROTEIN?

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>>>KWIC option is not available in file(s): 41, 77, 399

1/3,K/1 (Item 1 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
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134037959 CA: 134(4)37959f PATENT
cDNA molecule encoding Arabidopsis thaliana gene SHORT-INTEGUMENTS1
protein, sequence and biological uses thereof

INVENTOR(AUTHOR): Ray, Animesh; Golden, Teresa Ann

LOCATION: USA

ASSIGNEE: University of Rochester

PATENT: PCT International ; WO 200075359 A2 DATE: 20001214

APPLICATION: WO 2000US15800 (20000609) *US PV138316 (19990609)

PAGES: 51 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12Q-000/A

DESIGNATED COUNTRIES: AE; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH;

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IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LS; LT; LU; LV; MA; MD; MG; MK;

MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT;

TZ; UA; UG; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW; AT;

BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ;

CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

?s sinl (s) recombinant?

433 SIN1

1123978 RECOMBINANT?

S2 18 SIN1 (S) RECOMBINANT?

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S3 4 RD (unique items)

?show files;ds;t/3,k/all

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Set	Items	Description
S1	1	SHORT (W) INTEGUMENT? (W) PROTEIN?
S2	18	SIN1 (S) RECOMBINANT?
S3	4	RD (unique items)

>>>KWIC option is not available in file(s): 41, 77, 399

3/3,K/1 (Item 1 from file: 5)
 DIALOG(R)File 5:Biosis Previews(R)
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10514080 BIOSIS NO.: 199699135225

Association of yeast SIN1 with the tetratricopeptide repeats of CDC23.
AUTHOR: Shpungin Sally; Liberzon Arthur; Bangio Haim; Yona Eyal; Katcoff
Don J(a)

AUTHOR ADDRESS: (a)Dep. Life Sci., Bar Ilan Univ., Ramat Gan 52900**Israel
JOURNAL: Proceedings of the National Academy of Sciences of the United
States of America 93 (16):p8274-8277 1996

ISSN: 0027-8424
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: The yeast *SIN1* protein is a nuclear protein that together with other proteins behaves as a transcriptional repressor of a family of genes. In addition, *sin1* mutants are defective in proper mitotic chromosome segregation. In an effort to understand the basis for these phenotypes, we employed the yeast two-hybrid system to identify proteins that interact with *SIN1* in vivo. Here we demonstrate that CDC23, a protein known to be involved in sister chromatid separation during mitosis, is able to directly interact with *SIN1*. Furthermore, using *recombinant* molecules in vitro, we show that the N terminal of *SIN1* is sufficient to bind a portion of CDC23 consisting solely of tetratricopeptide repeats. Earlier experiments identified the C-terminal domain of *SIN1* to be responsible for interaction with a protein that binds the regulatory region of HO, a gene whose transcription is repressed by *SIN1*. Taken together with the results presented here, we suggest that *SIN1* is a chromatin protein having at least a dual function: The N terminal of *SIN1* interacts with the tetratricopeptide repeat domains of CDC23, a protein involved in chromosome segregation, whereas the C terminal of *SIN1* binds proteins involved in transcriptional regulation.

3/3,K/2 (Item 2 from file: 5)
DIALOG(R)File 5: Biosis Previews(R)
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10433952 BIOSIS NO.: 199699055097

Association of yeast SAP1, a novel member of the 'AAA' ATPase family of proteins, with the chromatin protein SIN1.

AUTHOR: Liberzon Arthur; Shpungin Sally; Bangio Haim; Yona Eyal; Katcoff
Don J(a)

AUTHOR ADDRESS: (a)Dep. Life Sci., Bar Ilan Univ., Ramat Gan 52900**Israel
JOURNAL: FEBS Letters 388 (1):p5-10 1996
ISSN: 0014-5793
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: The yeast *SIN1* protein is a nuclear protein that together with other proteins behaves as a transcriptional repressor of a family of genes. In addition, *sin1* mutants are defective in proper mitotic chromosome segregation. In an effort to understand the basis for these phenotypes, we employed the yeast two-hybrid system to identify proteins that interact with *SIN1* in vivo. Here, we demonstrate that SAP1, a novel protein belonging to the 'AAA' family of ATPases, is able to directly interact with *SIN1*. Furthermore, we show, using *recombinant* molecules in vitro, that a short 27 amino acid sequence near the N-terminal of *SIN1* is sufficient to interact with other proteins and defined different domains of SIN that interact with a protein that binds the regulatory region of HO, a gene whose transcription is repressed by *SIN1*. The central 'HMG1-like region' of *SIN1* binds DNA, while the N-terminal of *SIN1* can bind CDC23, a protein that regulates chromosome segregation. These data, taken together with the results presented here, suggest that *SIN1* is a multifunctional chromatin protein that can interact with a number of different proteins that are involved in several different cellular functions.

3/3,K/3 (Item 3 from file: 5)
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09780363 BIOSIS NO.: 199598235281
The C-terminal domain of SIN1 in yeast interacts with a protein that binds the URS1 region of the yeast HO gene.
AUTHOR: Yona Eyal; Bangio Haim; Erlich Porat; Tepper Steven H; Katcoff Don J
AUTHOR ADDRESS: Dep. Life Sci., Bar Ilan Univ., Ramat Gan 52900**Israel
JOURNAL: Molecular & General Genetics 246 (6):p774-777 1995
ISSN: 0026-8925
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: protein or protein complex has previously been identified in *Saccharomyces cerevisiae* which both binds a short DNA sequence in URS1 of HO and interacts with *SIN1*. *SIN1*, which has some sequence similarity to mammalian HMGL1, is an abundant chromatin protein in yeast and is thought to participate in the transcriptional repression of a specific family of genes. *SIN1* binds DNA weakly, though it has no DNA binding specificity. Here we address the nature of the interaction between *SIN1* and the specific DNA binding protein(s) to HO DNA. We show that the isolated C-terminal region of *SIN1* can interact in vitro with the DNA binding protein, causing a supershift in a gel mobility shift assay. Interestingly, inclusion of the region in *SIN1* which contains two acidic sequences, precludes the binding of *recombinant* protein to the DNA/protein complex.

3/3,K/4 (Item 1 from file: 399)
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134037959 CA: 134(4)37959f PATENT
cDNA molecule encoding Arabidopsis thaliana gene SHORT-INTEGUMENTS1 protein, sequence and biological uses thereof

INVENTOR(AUTHOR): Ray, Animesh; Golden, Teresa Ann
LOCATION: USA
ASSIGNEE: University of Rochester
PATENT: PCT International ; WO 200075359 A2 DATE: 20001214
APPLICATION: WO 2000US15800 (20000609) *US PV138316 (19990609)
PAGES: 51 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12Q-000/A
DESIGNATED COUNTRIES: AE; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH; CN; CR; CU; CZ; DE; DK; DM; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM
DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG
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